

fixed-mounted molded case circuit breaker w. handle frame 1600; 4AUX and trip alarm switch S24; Icu "M" Icu=55kA @ 415V, 3-pole ETU320, LI, In=1250A rotary coding switch Ir=500...1250A li=1.5...15 x In N conductor protec. adjustable opt. w. ext. CT; up to 200% nut keeper kit No communication connection, no measurement function Without additional alarm switch assembly With mechanical calling without 2nd auxiliary release without 1st auxiliary release

Model	
Product brand name	SENTRON
Product designation	miniature circuit-breaker
Design of the auxiliary switch	Standard 100 mA / 400/250 V AC
Design of the product	MCCB
Design of the operating mechanism	toggel handle actuator
Type of the driving mechanism	manual operating mechanism
Type of the driving mechanism / motor drive	No
Design of the overcurrent release	ETU320

General technical data	
Number of poles	3
Size of the circuit-breaker	1600 A
circuit-breaker / Design	3VA2
Mechanical service life (switching cycles) / typical	1 000

Voltage	
Insulation voltage / rated value	1 000 V
Protection class IP	IP20
Protection class IP / on the front	IP20
Protective function of the overcurrent release	LI
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	47 W

Electricity	
Operating current / at 45 °C / rated value	1 250 A
Continuous current / rated value	1 250 A
Adjustable pick-up value current	
<ul style="list-style-type: none"> • of the current-dependent overload release / Full-scale value 	1 250 A
<ul style="list-style-type: none"> • of instantaneous short-circuit trip unit / initial value 	1 875 A
<ul style="list-style-type: none"> • of instantaneous short-circuit trip unit / Full-scale value 	18 750 A

Short-time current resistance (I _{cw})	
<ul style="list-style-type: none"> • limited to 0.5 s / rated value 	20 kA
<ul style="list-style-type: none"> • limited to 1 s / rated value 	20 kA

Main circuit

Operating voltage	
<ul style="list-style-type: none"> • at AC / at 50/60 Hz / rated value 	690 V
Operating current	
<ul style="list-style-type: none"> • at 40 °C / rated value 	1 250 A
<ul style="list-style-type: none"> • at 50 °C / rated value 	1 250 A
<ul style="list-style-type: none"> • at 55 °C / rated value 	1 240 A
<ul style="list-style-type: none"> • at 60 °C / rated value 	1 182 A
<ul style="list-style-type: none"> • at 65 °C / rated value 	1 122 A
<ul style="list-style-type: none"> • at 70 °C / rated value 	1 057 A

Auxiliary circuit

Number of CO contacts / for auxiliary contacts	4
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Suitability

Suitability for use	system protection
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Adjustable parameters

Adjustable pick-up value current / of the current-dependent overload release / initial value	500 A
Product component	
<ul style="list-style-type: none"> • Trip indicator 	Yes
<ul style="list-style-type: none"> • Voltage trigger 	No
<ul style="list-style-type: none"> • undervoltage release 	No
Product extension / optional / motor drive	No

Product function

Product function	
<ul style="list-style-type: none"> • Ground fault protection 	No

Display and operation

Display version	Without display
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Short circuit

Operational short-circuit current breaking capacity (I _{cs})	
<ul style="list-style-type: none"> • at 415 V / rated value 	55 kA
<ul style="list-style-type: none"> • at 500 V / rated value 	36 kA
<ul style="list-style-type: none"> • at 690 V / rated value 	25 kA
Maximum short-circuit current breaking capacity (I _{cu})	
<ul style="list-style-type: none"> • at 415 V / rated value 	55 kA
<ul style="list-style-type: none"> • at 440 V / rated value 	55 kA
<ul style="list-style-type: none"> • at 500 V / rated value 	36 kA

- at 690 V / rated value

25 kA

Connections

Arrangement of electrical connectors / for main current circuit	Main connection on front side
Type of electrical connection <ul style="list-style-type: none"> • for main current circuit 	busbar connection

Mechanical Design

Height	296 mm
Width	210 mm
Depth	183 mm
Mounting type	fixed mounting
Net weight	14 kg

Environmental conditions

Ambient temperature	-25 ... +70 °C
	-40 ... +70 °C

Certificates

Reference code	
<ul style="list-style-type: none"> • acc. to DIN EN 61346-2 • acc. to DIN EN 81346-2 	<p>Q</p> <p>Q</p>

General Product Approval	Declaration of Conformity	Test Certificates	other
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[Miscellaneous](#)



[Miscellaneous](#)

[Manufacturer Declaration](#)

[Miscellaneous](#)

Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2712-5AB03-0AA0>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2712-5AB03-0AA0>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2712-5AB03-0AA0

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>

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